	Application No.	Applicant(s)
		Applicant(s)
Notice of Allowability Exa	10/748,559 Examiner	BRASK ET AL.
	cxaminer	Art Unit
	Thao X. Le	2814
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT (of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. This communication is responsive to 7/14/06.		
2. The allowed claim(s) is/are 13-16.		
3. Acknowledgment is made of a claim for foreign priority unit a) All b) Some* c) None of the:		or (f).
Certified copies of the priority documents have		an Ma
2. Certified copies of the priority documents have	• •	
3. Copies of the certified copies of the priority doc	cuments have been receive	ed in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must	t be submitted.	
(a) ☐ including changes required by the Notice of Draftsperso	on's Patent Drawing Revie	w (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment of	or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No	./Mail Date s Amendment/Comment
Paper No./Mail Date		
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		s Statement of Reasons for Allowance
	9. 🗌 Other	_

Art Unit: 2814

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DETAILED ACTION

Terminal Disclaimer

1. The terminal disclaimer filed on 7/14/06 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of the Application No: 10/748383 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Reason s For Allowance

2. The following is an examiner's statement of reasons for allowance: Claims 13-16 are allowed because the because the prior art of record is neither anticipated nor rendered obvious all the limitations of the base claim 13 including remove the n-type polysilicon layer without removing significant portion of the p-type polysilicon layer, exposing the first gate dielectric layer; removing the exposed first gate dielectric layer; forming a high-k gate dielectric layer on the substrate at the bottom of the trench, forming an n-type metal layer on the high-k dielectric layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2814

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao X. Le whose telephone number is (571) 272-1708. The examiner can normally be reached on M-F from 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael M. Fahmy can be reached on (571) 272 -1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Thao X. Le 0**7** Aug. 2006